Michigan Refining Division

Marathon Petroleum Company LP

1300 South Fort Street
Detroit, MI 48217
Telephone 313/843-9100

VIA FEDERAL EXPRESS

July 19, 2012

Ms. Wilhemina McLemore, District Supervisor
Michigan Department of Environmental Quality
Air Quality Division
3058 W. Grand Boulevard
Suite 2300
Detroit, MI 48202

Re: Continuous Emissions Monitoring System Reports for the Second Quarter 2012; Marathon Petroleum Company LP – Michigan Refining Division

Dear Ms. McLemore:

This report contains information and data related to continuous emissions monitoring systems (CEMS) at Marathon Petroleum Company LP's (MPC's) Michigan Refining Division (MRD) for the first quarter 2012. These reports are submitted pursuant to the General Provisions of the federal New Source Performance Standards (40 CFR 60.7) and Rule 1170 of the Michigan Air Pollution Control Rules. In addition, this report contains information required by the first modification to the November 2005 First Revised NSR Consent Decree, United States of America et. al. v. Marathon Petroleum Company LLC (Civil Action No. 4:01CV-40119-PVG), lodged February 7, 2008 and entered on March 31, 2008. This report is divided into three attachments as follows:

Appendix A – CEMS downtime and excess emissions summary reports pursuant to 40 CFR 60.7(d) for all environmental analyzers at the Refinery. The CEMS did not exceed the 5% downtime limit or the 1% excess emission limit.

Appendix B - New Source Performance Standards (NSPS) Subpart J Alternate Monitoring Plan (AMP) data for seven streams: (1) Alky Spent Caustic H2S, (2) CCR/SR Recycle H2 H2S, (3) DHT/Unifiner Recycle H2 H2S, (4) FCCU Disulfide off-gas H2S, (5) CP Spent Caustic Drum Vent H2S, (6) SR Aromatics Sump Vent H2S, and (7) CCR Chlorsorb Vent SO2. The Alky Spent Caustic H2S samples were collected in the mornings beginning April 17th to the end of the quarter. However the samples were inadvertently taken in the morning and not necessarily during release of caustic to the flare.

The Refinery has five additional AMPs for which no data is being submitted: (1) The Crude Spent Caustic Drum was permanently shutdown, (2) The BT Recycle Hydrogen, which was part of the BT Platformer unit, was permanently shutdown in September 2005, (3) CCR Lockhopper Vent Gas which currently cannot physically be vented to the flare or fuel system, (4) Propylene Deethanizer off-gas, and (5) Alky Deethanizer off-gas were re-routed to a location that the refinery's fuel gas H2S analyzer will receive the streams.

All AMPs were obtained in accordance with the NSPS General Provisions (40 CFR §60.13(i)).

Appendix C – Data from cylinder gas audits performed on CEMS located on the exhaust of the B&W Boiler, CCR Charge Heater, Crude and Vacuum Heaters, East Plant H2S, FCC Charge Heater, FCCU Regenerator, SRU Thermal Oxidizer, and the Zurn Boiler. A Relative Accuracy Test Audit (RATA) was conducted on the West Plant H2S CEMS on April 18, 2012.

Please note, under the refinery's Title V permit in Table E-1.3, Section III.A.1 it indicates that quarterly cylinder gas audits of the FCCU opacity monitor are required; however, a quarterly cylinder gas audit program does not exist for this type of analyzer. The refinery is maintaining the analyzer according to the PTI 28-02A and completing a yearly audit of the analyzer. The refinery has requested a wording modification in the Title V renewal.

I certify under penalty of law that this information was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my directions and my inquiry of the person(s) who manage the system, or the person(s) directly responsible for gathering the information, the information in Appendices A through D of this submittal is, to the best of my knowledge and belief, true, accurate, and complete. Please contact Tabetha Daum at (313) 297-4701 if you have any questions concerning this submittal.

Sincerely,

Marathon Petroleum Company LP

By: MPC Investment LLC, General Partner

Mr. C.T. Case, Deputy Assistant Secretary

Attachments

cc: Technical Programs Unit - MDEQ: AQD – c/o Karen Kajiya-Mills – *Federal Express*

Chief, Environmental Enforcement Section, Environment and Natural Resources Division, U.S. DOJ - *Federal Express*

U.S. EPA, Director of Air Enforcement Division c/o Matrix Environmental and Geotechnical– *Federal Express*

Air and Radiation Division, U.S. EPA Region 5 – *Federal Express*

Office of Regional Counsel, U.S. EPA Region 5 – *Federal Express*

Appendix A

CEMS Downtime and Excess Emissions Summary Reports

Excess Emission and CEM Reporting Form

Pollutant: SO2 (NOx) CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: BW Boiler

Monitor Model: Limas 11 (NOx)

Manufacturer: ABB

Emission Limit: 0.20 lbs/MMBTU

Average Time: daily average

Total Operating Hours of Emission Unit: 2184 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	1.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	17.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	18.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	0.82 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx (CO) CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Monitor Model: URAS 14 (CO)

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: 400 ppm

Emission Unit: BW Boiler (CO)

Average Time: daily average

Total Operating Hours of Emission Unit: 2184 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	1.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	17.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	18.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	0.82	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 (O2) TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: BW Boiler (O2)

Monitor Model: Magnos 106 (O2)

Manufacturer: ABB

Emission Limit: none

Average Time: none

Total Operating Hours of Emission Unit: 2184 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	1.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	17.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	18.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	0.82 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 (NOx) CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: FCCU Regenerator

Monitor Model: Limas 11 (NOx)

Manufacturer: ABB

Emission Limit: 80 ppm
Average Time: 7 day average
Emission Limit: 70 ppm
Average Time: 365 day average

Total Operating Hours of Emission Unit: 2184 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	10.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	10.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	0.46 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx (CO) CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Monitor Model: URAS 14 (CO)

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: 500 ppm

Emission Unit: FCCU Regenerator

Average Time: one hour average

Total Operating Hours of Emission Unit: 2184 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	4.00 hrs	C. QA Calibration	10.00 hrs
D. Other Known Causes	5.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	9.00 hrs	2. Total Duration	10.00 hrs
3. Percent of Total Excess Emissions	0.41 %	3. Percent of Total CEM Downtime	0.46 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 (O2) TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: FCCU Regenerator

Monitor Model: Magnos 16 (O2)

Manufacturer: ABB

Emission Limit: none

Average Time: none

Total Operating Hours of Emission Unit: 2184 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	10.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	10.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	0.46 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: (SO2) NOx CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: FCCU Regenerator

Monitor Model: Limas 11 (SO2)

Manufacturer: ABB

Emission Limit: 70 ppm
Average Time: 7 day average
Emission Limit: 35 ppm
Average Time: 365 day average

Total Operating Hours of Emission Unit: 2184 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	0.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	10.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	10.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	0.46	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 O2 TRS H2S HC1 (Opacity) (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: FCCU Regenerator

Monitor Model: Lighthawk 560

Manufacturer: Teledyne Monitor Labs

Emission Limit: 20% opacity

Average Time: 6 minute average

Total Operating Hours of Emission Unit: 2184 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	0.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	4.50	hrs	C. QA Calibration	4.00	hrs
D. Other Known Causes	4.40	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	8.90	hrs	2. Total Duration	4.00	hrs
3. Percent of Total Excess Emissions	0.41	%	3. Percent of Total CEM Downtime	0.18	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 O2 TRS (H2S) HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: West Plant Fuel Gas NSPS Heaters

Monitor Model: 2000GC

Manufacturer: ABB

Emission Limit: 162 ppm

Average Time: 3 hour average

Total Operating Hours of Emission Unit: 2184 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	33.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	3.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	36.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	1.65	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 O2 TRS (H2S) HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Monitor Model: 2000 Vista II

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: 162 ppm

Emission Unit: East Plant Fuel Gas NSPS Heaters

Average Time: 3 hour average

Total Operating Hours of Emission Unit: 2184 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	0.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	17.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	17.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	0.78	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 (NOx) CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: Zurn Boiler

Monitor Model: Limas 11 (NOx)

Manufacturer: ABB

Emission Limit: 0.2 lbs/MMBTU

Average Time: 24 hour average

Total Operating Hours of Emission Unit: 2184 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	0.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	2.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	2.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	0.09	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx (CO) CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: Zurn Boiler

Monitor Model: URAS 26 (CO)

Manufacturer: ABB

Emission Limit: 0.1 lbs/MMBTU

Average Time: annual rolling average

Total Operating Hours of Emission Unit: 2184 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	0.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	2.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	2.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	0.09	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 (O2) TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: Zurn Boiler

Monitor Model: Magnos 2 (O2)

Manufacturer: ABB

Emission Limit: none

Average Time: none

Total Operating Hours of Emission Unit: 2184 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	2.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	2.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	0.09 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: (SO2) NOx CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: Sulfur Recovery Unit Thermal Oxidizer

Monitor Model: LIMAS-11-UV

Manufacturer: ABB Advance Optima

Emission Limit: 250 ppm

Average Time: 12 hour average

Total Operating Hours of Emission Unit: 2184 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	27.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	3.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	30.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	1.37 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 (O2) TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Monitor Model: MAGNOS 106/206

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB Advance Optima

Emission Limit: none

Emission Unit: Sulfur Recovery Unit Thermal Oxidizer

Average Time: none

Total Operating Hours of Emission Unit: 2184 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	27.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	3.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	30.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	1.37 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx (CO) CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: CCR Charge Heater (CO)

Monitor Model: URAS 14 (CO)

Manufacturer: ABB

Emission Limit: 400 ppm

Average Time: daily average

Total Operating Hours of Emission Unit: 2184 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	5.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	5.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	0.23 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 (O2) TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Monitor Model: Magnos 106 (O2)

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: none

Emission Unit: CCR Charge Heater (O2)

Average Time: none

Total Operating Hours of Emission Unit: 2184 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	0.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	5.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	5.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	0.23	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx (CO) CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Monitor Model: URAS 14 (CO)

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: 400 ppm

Emission Unit: FCCU Charge Heater

Average Time: 1 hour average

Total Operating Hours of Emission Unit: 2184 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	0.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	6.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	73.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	79.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	3.62	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 (O2) TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Monitor Model: Magnos 106 (O2)

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: none

Emission Unit: FCCU Charge Heater

Average Time: none

Total Operating Hours of Emission Unit: 2184 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	2.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	73.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	75.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	3.43 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 (NOx) CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: Crude/Vacuum Charge Heater

Monitor Model: Limas 11 (NOx)

Manufacturer: ABB

Emission Limit: 0.05 lbs/MMBTU

Average Time: annual rolling average

Total Operating Hours of Emission Unit: 2184 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	2.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	2.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	0.09 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 (O2) TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: Crude/Vacuum Charge Heater (O2)

Monitor Model: Magnos 106 (O2)

Manufacturer: ABB

Emission Limit: none

Average Time: none

Total Operating Hours of Emission Unit: 2184 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	2.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	2.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	0.09 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: Flare Pilot

Reporting Quarter: Second 2012

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: Vents to CP Flare

Monitor Model: SLX-202

Manufacturer: Powertrol

Emission Limit: Pilot Light Present

Average Time: continuously

Total Operating Hours of Emission Unit: 2184 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	0.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes*	0.00 hrs
E. Unknown Causes	1.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	1.00 hrs	2. Total Duration	0.00 hrs
3. Percent of Total Excess Emissions	0.05 %	3. Percent of Total CEM Downtime	0.00 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

*Other Known Causes: Hours in this category are attributed to weather, including rain and snow, as well as fog from cooling tower operation interfering with the sight of the analyzer. Visual checks verified a pilot was present.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: Flare Pilot

Reporting Quarter: Second 2012

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: Vents to Alkylation Unit Flare

Monitor Model: SLX-202

Manufacturer: Powertrol

Emission Limit: Pilot Light Present

Average Time: continuously

Total Operating Hours of Emission Unit: 2184 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	0.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes*	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	0.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	0.00 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

*Other Known Causes: Hours in this category are attributed to weather, including rain and snow, as well as fog from cooling tower operation interfering with the sight of the analyzer. Visual checks verified a pilot was present.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: Flare Pilot

Reporting Quarter: Second 2012

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: Vents to Unifiner Flare

Monitor Model: SLX-202

Manufacturer: Powertrol

Emission Limit: Pilot Light Present

Average Time: continuously

Total Operating Hours of Emission Unit: 2184 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	0.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes*	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	0.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	0.00 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

*Other Known Causes: Hours in this category are attributed to weather, including rain and snow, as well as fog from cooling tower operation interfering with the sight of the analyzer. Visual checks verified a pilot was present.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: Flare Pilot

Reporting Quarter: Second 2012

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: Vents to Crude Flare

Monitor Model: SLX-202

Manufacturer: Powertrol

Emission Limit: Pilot Light Present

Average Time: continuously

Total Operating Hours of Emission Unit: 2184 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	0.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes*	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	11.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	11.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	0.50 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

*Other Known Causes: Hours in this category are attributed to weather, including rain and snow, as well as fog from cooling tower operation interfering with the sight of the analyzer. Visual checks verified a pilot was present.

Appendix B

New Source Performance Standards (NSPS) Subpart J Alternate Monitoring Plan (AMP) Data

Most Recent Sample Dates	Complex 3 (RADAR) - B FCCU Disulfide off-gas H2S ppm 2 x year	Most Recent Sample Dates	Complex 3 (RADAR) - C CP Spent Caustic Drum Vent H2S ppm 2 x year	Most Recent Sample Dates	Complex 4 (AMP Sheet) - D SR Aromatics Sump Vent H2S ppm 2 x year	Most Recent Sample Dates	Complex 4 (AMP Sheet) - E CCR Chlorsorb Vent SO2 ppm 2 x year
1/4/2012	0	1/4/2012	0	3/29/2012	0	3/28/2012	0
5/13/2012	0	5/3/2012	0	6/28/2012	0	6/27/2012	0

	Complex 2 (AMP Sheet) - A		Complex 4 (Lab Data)		Complex 2 (Lab Data)	
	Alky Spent Caustic H2S ppm		CCR/SR Recycle H2 H2S ppm		DHT/Unifiner Recycle H2 H2S ppm	
	When flaring		2 x year		5 x week	
Date			14RHH2S.LDd		07RHH2S.LD	
4/1/2012			<1		Unit down	
4/2/2012			<1		<1	
4/3/2012			<1		55	*
4/4/2012			<1		200	*
4/5/2012			<1		732	*
4/6/2012			<1		718	*
4/7/2012			<1		<1	
4/8/2012			<1		717	*
4/9/2012			<1		<1	
4/10/2012			<1		<1	
4/11/2012			<1		<1	
4/12/2012			<1		15	*
4/13/2012			<1		<1	
4/14/2012			<1		<1	
4/15/2012			<1		<1	
4/16/2012			<1		50	*
4/17/2012	0	**	<1		<1	
4/18/2012	0	**	<1		<1	
4/19/2012	0	**	<1		<1	
4/20/2012	0	**	<1		<1	
4/21/2012	0	**	<1		<1	
4/22/2012	0	**	<1		--	
4/23/2012	0	**	<1		<1	
4/24/2012	0	**	<1		<1	
4/25/2012	0	**	<1		<1	
4/26/2012	0	**	--		<1	
4/27/2012	0	**	<1		<1	
4/28/2012	0	**	<1		--	
4/29/2012	0	**	<1		<1	
4/30/2012	0	**	<1		<1	
5/1/2012	0	**	<1		<1	
5/2/2012	0	**	<1		<1	
5/3/2012	0	**	--		<1	
5/4/2012	0	**	--		<1	
5/5/2012	0	**	<1		10	*
5/6/2012	0	**	<1		<1	
5/7/2012	0	**	<1		<1	
5/8/2012	0	**	<1		<1	
5/9/2012	0	**	<1		<1	
5/10/2012	0	**	<1		--	
5/11/2012	0	**	<1		<1	
5/12/2012	0	**	<1		<1	
5/13/2012	0	**	<1		<1	
5/14/2012	0	**	<1		<1	
5/15/2012	0	**	<1		<1	
5/16/2012	0	**	<1		<1	
5/17/2012	0	**	<1		<1	
5/18/2012	0	**	<1		<1	
5/19/2012	0	**	<1		<1	
5/20/2012	0	**	<1		<1	
5/21/2012	0	**	<1		<1	
5/22/2012	0	**	<1		<1	
5/23/2012	0	**	<1		<1	
5/24/2012	0	**	<1		<1	
5/25/2012	0	**	<1		<1	
5/26/2012	0	**	<1		<1	
5/27/2012	0	**	<1		<1	
5/28/2012	0	**	<1		<1	
5/29/2012	0	**	<1		<1	
5/30/2012	0	**	<1		<1	
5/31/2012	0	**	<1		<1	
6/1/2012	0	**	<1		<1	
6/2/2012	0	**	<1		<1	
6/3/2012	0	**	<1		<1	
6/4/2012	0	**	<1		<1	
6/5/2012	0	**	<1		<1	
6/6/2012	0	**	<1		<1	
6/7/2012	0	**	<1		<1	
6/8/2012	0	**	<1		<1	
6/9/2012	0	**	<1		<1	
6/10/2012	0	**	<1		<1	
6/11/2012	0	**	<1		<1	
6/12/2012	0	**	--		--	
6/13/2012	0	**	<1		<1	
6/14/2012	0	**	<1		<1	
6/15/2012	0	**	<1		<1	
6/16/2012	0	**	<1		<1	
6/17/2012	0	**	<1		<1	
6/18/2012	0	**	<1		<1	
6/19/2012	0	**	<1		<1	
6/20/2012	0	**	<1		<1	
6/21/2012	0	**	<1		<1	
6/22/2012	0	**	<1		<1	
6/23/2012	0	**	<1		75	*
6/24/2012	0	**	<1		<1	
6/25/2012	0	**	<1		35	*
6/26/2012	0	**	<1		<1	
6/27/2012	0	**	<1		<1	
6/28/2012	0	**	<1		<1	
6/29/2012	0	**	<1		<1	
6/30/2012	0	**	--		<1	

**Readings were taken during the morning rounds and not necessarily during caustic release to the flare

*No flaring occurred at this time.

Appendix C

Cylinder Gas Audit Information

Cylinder Gas Audit (CGA) Datasheet
Marathon Petroleum Company LP - Michigan Refining Division

Analyzer: Crude and Vacuum Heater NOx

Analyzer Manufacturer: ABB

Analyzer model #'s: Limas11 (NOx) and Magnos 106 (O2)

Constituents monitored (w/ranges): NOx (0-100) O2 (0-10%)

Date CGA performed: 4/12/2012

Performed by: Glen Senczysztn and Bryan Longtine

Calibration gases used:

MAP stock #	Constituent	low- or mid-	Cylinder #	Exp date	Certified concentration	Units
76-188-132	NO	low	EB0014057	01/28/13	25.4	ppm
76-188-219	O2	low	EB0005557	10/20/14	5.51	%
76-188-132	NO	mid	CC319137	01/11/13	55.8	ppm
76-188-215	O2	mid	CC8457	07/28/12	9.12	%

Low-level CGA:

Start time	End time	NO	O2
10:21	10:33	25.4	5.32
10:33	10:45	25.4	5.32
10:45	10:57	25.4	5.32
Average		25.4	5.32
Cal gas value		25.4	5.51
CGA accuracy		0.00%	3.45%

Mid-level CGA:

Start time	End time	NO	O2
10:59	11:11	55.8	8.92
11:11	11:23	55.8	8.92
11:23	11:35	55.8	8.92
Average		55.8	8.92
Cal gas value		55.8	9.12
CGA accuracy		0.00%	2.19%

Cylinder Gas Audit (CGA) Datasheet
Marathon Petroleum Company LP - Michigan Refining Division

Analyzer: East Plant Fuel Gas

Analyzer Manufacturer: ABB

Analyzer model #'s: 2000 VISTA II

Constituents monitored (w/ranges): H2S (0-300)

Date CGA performed: 4/12/2012

Performed by: D. Pek and E. Justa

Analyzer: West Plant Fuel Gas

Analyzer Manufacturer: ABB

Analyzer model #'s: 2000GC

Constituents monitored (w/ranges): H2S (0-300)

Date CGA performed: 3/16/2012

Performed by: B. Longtine

Calibration gases used:

MAP stock #	Constituent	low- or mid-	Cylinder #	Exp date	Certified concentration	Units
East Plant Fuel Gas						
76-188-017	H2S	low	EB0031076	06/03/12	75.3	ppm
76-188-019	H2S	mid	EB0015328	03/08/13	163	ppm
West Plant Fuel Gas						
76-188-017	H2S	low	EB0031076	06/03/12	75.3	ppm
76-188-019	H2S	mid	EB0015328	03/08/13	163	ppm

East Plant Fuel Gas

Low-level CGA:

Start time	End time	H2S
9:36	9:41	76.6
9:41	9:46	74.4
9:46	9:51	75.1
Average		75.4
Cal gas value		75.3
CGA accuracy		0.1%

Mid-level CGA:

Start time	End time	H2S
9:56	10:01	163.8
10:01	10:06	163.4
10:06	10:11	156.9
Average		161.4
Cal gas value		163.0
CGA accuracy		1.0%

A RATA was conducted on the West Plant Fuel Gas CEMS 4/18/2012

Cylinder Gas Audit (CGA) Datasheet
Marathon Petroleum Company LP - Michigan Refining Division

Analyzer: Zurn Boiler

Analyzer Manufacturer: ABB

Analyzer Model Number's: ABB Limas 11 (NOx), ABB Uras 14 (CO), and ABB Magnos 106 (O2)

Serial Number's: 3.341196.1 (NOx), 3.341671.1 (CO), and 3.341670.1 (O2)

Constituents monitored (w/ranges): NOx (0-500), CO high range (0-500), CO low range (0-50) and O2 (0-10%)

Date CGA performed: 6/19/2012

Performed by: Bryan Longtine

Calibration gases used:

MAP stock #	Constituent	low- or mid-	Cylinder #	Exp date	Certified concentration	Units
76-188-232	NOx	low	EB0025464	02/02/13	120	ppm
76-188-232	CO high range	low	EB0025464	02/02/13	125	ppm
76-188-259	CO low range	low	EB0033563	09/23/14	11.9	ppm
76-188-259	O2	low	EB0033563	09/23/14	5.00	%
76-188-231	NOx	mid	EB0025213	01/07/13	268	ppm
76-188-231	CO high range	mid	EB0025213	01/07/13	273	ppm
76-188-269	CO low range	mid	EB0033318	09/23/14	27.80	ppm
76-188-269	O2	mid	EB0033318	09/23/14	8.98	%

Low-level CGA:

Start time	End time	NOx	CO high range	CO low range	O2
18:49	19:01	119	127.8	13.08	5.08
19:01	19:14	119	127.8	13.03	5.07
19:14	19:27	119	127.8	12.92	5.07
Average		119	128	13.0	5.07
Cal gas value		120	125	11.9	5.00
CGA accuracy		0.8%	2.2%	9.3%	1.5%

Mid-level CGA:

Start time	End time	NOx	CO high range	CO low range	O2
19:36	19:48	266	278.1	28.57	9.05
19:48	20:00	266	278.5	28.57	9.07
20:00	20:13	266	278.5	28.51	9.06
Average		266	278	28.6	9.06
Cal gas value		268	273	27.8	8.98
CGA accuracy		0.7%	2.0%	2.7%	0.9%

Cylinder Gas Audit (CGA) Datasheet
Marathon Petroleum Company LP - Michigan Refining Division

Analyzer: B&W Boiler CEMS

Analyzer Manufacturer: ABB

Analyzer model #'s: Limas 11 (NOx), Magnos 106 (O2), Uras 14 (CO)

Constituents monitored (w/ranges): NOx (0-500), CO (0-500), O2 (0-10%)

Date CGA performed: 4/2/2012

Performed by: Eric Justa and Glen Senczyszyn

Calibration gases used:

MAP stock #	Constituent	low- or mid-	Cylinder #	Exp date	Certified concentration	Units
76-188-232	NO	low	EB0025464	02/02/13	119	ppm
76-188-232	CO	low	EB0025464	02/02/13	125	ppm
76-188-219	O2	low	EB0031049	10/20/14	5.52	%
76-188-231	NO	mid	EB0025951	11/09/13	270	ppm
76-188-231	CO	mid	EB0025951	11/09/13	277	ppm
76-188-215	O2	mid	EB0023341	06/24/13	8.99	%

Low-level CGA:

Start time	End time	NO	CO	O2
10:28	10:40	117	125	5.52
10:40	10:52	117	125	5.52
10:52	11:04	117	125	5.52
Average		117.0	125	5.52
Cal gas value		119.0	125	5.52
CGA accuracy		1.7%	0.0%	0.0%

High-level CGA:

Start time	End time	NO	CO	O2
14:30	14:43	279	277	8.96
14:43	14:55	279	277	8.94
14:55	15:07	279	277	8.99
Average		279.0	277	8.96
Cal gas value		270.0	277	8.99
CGA accuracy		3.3%	0.0%	0.3%

Cylinder Gas Audit (CGA) Datasheet
Marathon Petroleum Company LP - Michigan Refining Division

Analyzer: CCR Charge Heater

Analyzer Manufacturer: ABB

Analyzer model #'s: URAS 14 (CO) and Magnos 106 (O2)

Constituents monitored (w/ranges): CO (0-500) and O2 (0-10%)

Date CGA performed: 6/25/2012

Performed by: Eric Justa and Erik Carlson

Calibration gases used:

MAP stock #	Constituent	low- or mid-	Cylinder #	Exp date	Certified concentration	Units
76-188-166	CO	low	CC275924	05/15/15	122	ppm
76-188-166	O2	low	CC275924	05/15/15	4.96	%
76-188-165	CO	mid	CC311111	01/23/15	274	ppm
76-188-165	O2	mid	CC311111	01/23/15	8.93	%

Low-level CGA:

Start time	End time	CO	O2
10:05	10:13	122	4.96
10:13	10:21	122	4.96
10:21	10:29	122	4.96
Average		122	4.96
Cal gas value		122.0	4.96
CGA accuracy		0.0%	0.0%

Mid-level CGA:

Start time	End time	CO	O2
10:32	10:41	270	8.87
10:41	10:50	270	8.87
10:50	10:59	270	8.87
Average		270	8.87
Cal gas value		274	8.93
CGA accuracy		1.5%	0.7%

Cylinder Gas Audit (CGA) Datasheet
Marathon Petroleum Company LP - Michigan Refining Division

Analyzer: FCC Charge Heater

Analyzer Manufacturer: ABB

Analyzer model #'s: URAS 14 (CO) and Magnos 106 (O2)

Constituents monitored (w/ranges): CO (0-500) and O2 (0-10%)

Date CGA performed: 5/2/2012

Performed by: Eric Justa and Bryan Longtine

Calibration gases used:

MAP stock #	Constituent	low- or mid-	Cylinder #	Exp date	Certified concentration	Units
76-188-166	CO	low	CC275912	06/28/13	124	ppm
76-188-166	O2	low	CC275912	06/28/13	5.02	%
76-188-165	CO	mid	EB0023488	02/13/15	275	ppm
76-188-165	O2	mid	EB0023488	02/13/15	8.98	%

Low-level CGA:

Start time	End time	CO	O2
9:41	9:50	124	5.05
9:50	9:59	124	5.05
9:59	10:08	124	5.05
Average		124	5.05
Cal gas value		124	5.02
CGA accuracy		0.0%	0.6%

Mid-level CGA:

Start time	End time	CO	O2
10:08	10:17	272	9.00
10:17	10:27	272	9.00
10:27	10:37	272	9.00
Average		272	9.00
Cal gas value		275	8.98
CGA accuracy		1.1%	0.2%

Cylinder Gas Audit (CGA) Datasheet
Marathon Petroleum Company LLC - Michigan Refining Division

Analyzer: FCCU Regenerator exhaust CEMS

Analyzer Manufacturer: ABB

Analyzer model #'s: Limas 11 (SO2/NOx), Magnos 106 (O2), Uras 14 (CO/CO2)

Constituents monitored (w/ranges): SO2 (0-200), NOx (0-200), CO (0-1000), CO2 (0-20%), O2 (0-10%)

Date CGA performed: 5/28/2012

Performed by: Bryan Longtine and Eric Justa

Calibration gases used:

MAP stock #	Constituent	low- or mid-	Cylinder #	Exp date	Certified concentration	Units
76-188-218	SO2	low	EB0014006	11/15/12	47.7	ppm
76-188-218	NO	low			49.6	ppm
76-188-218	CO	low			247	ppm
76-188-218	CO2	low			6.53	%
76-188-219	O2	low	EB0003884	05/16/14	5.51	%
76-188-213	SO2	mid	CC308954	3/24/14	111	ppm
76-188-213	NO	mid			111	ppm
76-188-213	CO	mid			546	ppm
76-188-213	CO2	mid			12.1	%
76-188-215	O2	mid	EB0023341	06/24/13	8.99	%
76-188-215	NO2	mid			90.9	ppm

Low-level CGA:

Start time	End time	SO2	NO	CO	CO2	O2
9:48	10:00	44.3	54	253	6.7	5.87
10:00	10:12	44.3	52.7	253	6.7	5.87
10:12	10:26	46.2	52.2	253	6.7	5.88
Average		45	53	253	6.70	5.87
Cal gas value		47.7	49.6	247.0	6.53	5.51
CGA accuracy		5.8%	6.8%	2.4%	2.6%	6.6%

Mid-level CGA:

Start time	End time	SO2	NO	CO	CO2	O2
10:26	10:39	112.1	112.8	543	12.2	9.35
10:39	10:52	112.8	112.8	543	12.2	9.35
10:52	11:05	112.8	112.8	543	12.2	9.35
Average		112.6	113	543	12.2	9.35
Cal gas value		111	111.0	546	12.1	8.99
CGA accuracy		1.4%	1.6%	0.5%	0.8%	4.0%

ylinder Gas Audit (CGA) Datash
Marathon Petroleum Company LP - Michigan Refining Division

Analyzer: SRU Thermal Oxidizer SO2

Analyzer Manufacturer: ABB Advance Optima

Analyzer model #'s: LIMAS-11-UV (SO2) and MAGNOS 106/206 (O2)

Constituents monitored (w/ranges): SO2 (0-500) O2 (0-10%)

Date CGA performed: 6/21/2012

Performed by: Eric Justa and Glen Senczyszyn

Calibration gases used:

MAP stock #	Constituent	low- or mid-	Cylinder #	Exp date	Certified concentration	Units
76-188-232	SO2	low	EB0027779	01/31/13	129.0	ppm
76-188-219	O2	low	EB0027779	01/31/13	5.50	%
76-188-231	SO2	mid	CC316237	01/31/13	279	ppm
76-188-215	O2	mid	CC316237	01/31/13	9.01	%

Low-level CGA:

Start time	End time	SO2	O2
9:38	9:47	126.0	5.50
9:47	9:56	126.0	5.50
9:56	10:04	126.0	5.50
Average		126.0	5.50
Cal gas value		129	5.5
CGA accuracy		2.3%	0.0%

Mid-level CGA:

Start time	End time	SO2	O2
10:05	10:15	274.0	9.00
10:15	10:25	274.0	9.00
10:25	10:35	274.0	9.00
Average		274.0	9.00
Cal gas value		279	9.0
CGA accuracy		1.8%	0.1%

MICHIGAN DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENT
AIR QUALITY DIVISION

RENEWABLE OPERATING PERMIT
REPORT CERTIFICATION

Authorized by 1994 P.A. 451, as amended. Failure to provide this information may result in civil and/or criminal penalties.

Reports submitted pursuant to R 336.1213 (Rule 213), subrules (3)(c) and/or (4)(c), of Michigan's Renewable Operating Permit (ROP) program must be certified by a responsible official. Additional information regarding the reports and documentation listed below must be kept on file for at least 5 years, as specified in Rule 213(3)(b)(ii), and be made available to the Department of Natural Resources and Environment, Air Quality Division upon request.

Source Name: Marathon Petroleum Company LP — County: Wayne

Source Address: 1300 South Fort Street — City: Detroit

AQD Source ID (SRN): A9831 — ROP No.: 199700013c — ROP Section No.: 01

Please check the appropriate box(es):

☐ **Annual Compliance Certification (Pursuant to Rule 213(4)(c))**

Reporting period (provide inclusive dates): From _____ To _____

☐ 1. During the entire reporting period, this source was in compliance with **ALL** terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference. The method(s) used to determine compliance is/are the method(s) specified in the ROP.

☐ 2. During the entire reporting period this source was in compliance with all terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference, **EXCEPT** for the deviations identified on the enclosed deviation report(s). The method used to determine compliance for each term and condition is the method specified in the ROP, unless otherwise indicated and described on the enclosed deviation report(s).

☐ **Semi-Annual (or More Frequent) Report Certification (Pursuant to Rule 213(3)(c))**

Reporting period (provide inclusive dates): From _____ To _____

☐ 1. During the entire reporting period, **ALL** monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred.

☐ 2. During the entire reporting period, all monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred, **EXCEPT** for the deviations identified on the enclosed deviation report(s).

☒ **Other Report Certification**

Reporting period (provide inclusive dates): From 4/1/2012 To 6/30/2012

Additional monitoring reports or other applicable documents required by the ROP are attached as described:

2nd Quarter 2012 Continuous Emission Monitoring (CEMS) Downtime and Excess Emission Report.

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this report and the supporting enclosures are true, accurate and complete

C.T. Case	MPC Investment LLC, its General Partner Deputy Assistant Secretary	313-843-9100
Name of Responsible Official (print or type)	Title	Phone Number

C.T. Case — 7/19/12

Signature of Responsible Official — Date

* Photocopy this form as needed.

EQP 5736 (Rev 2-10)